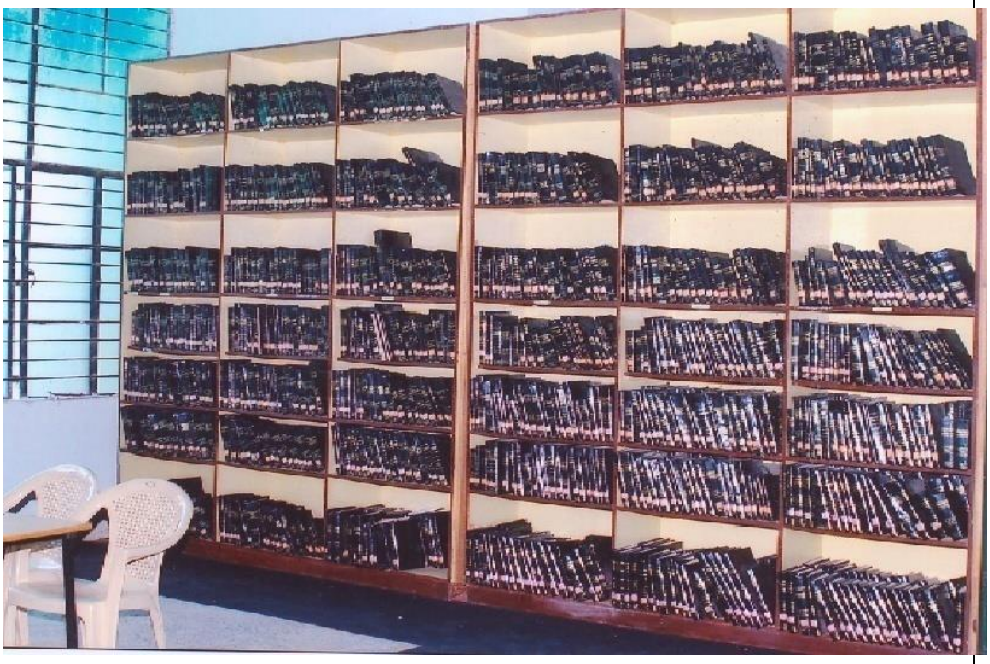
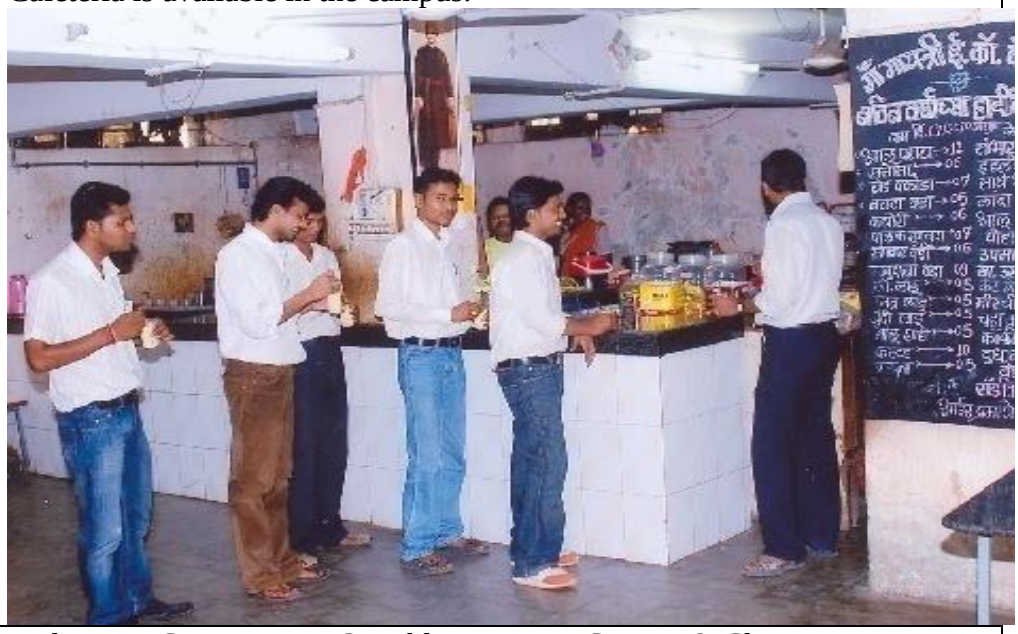
ANNEXURE V

Infrastructural information

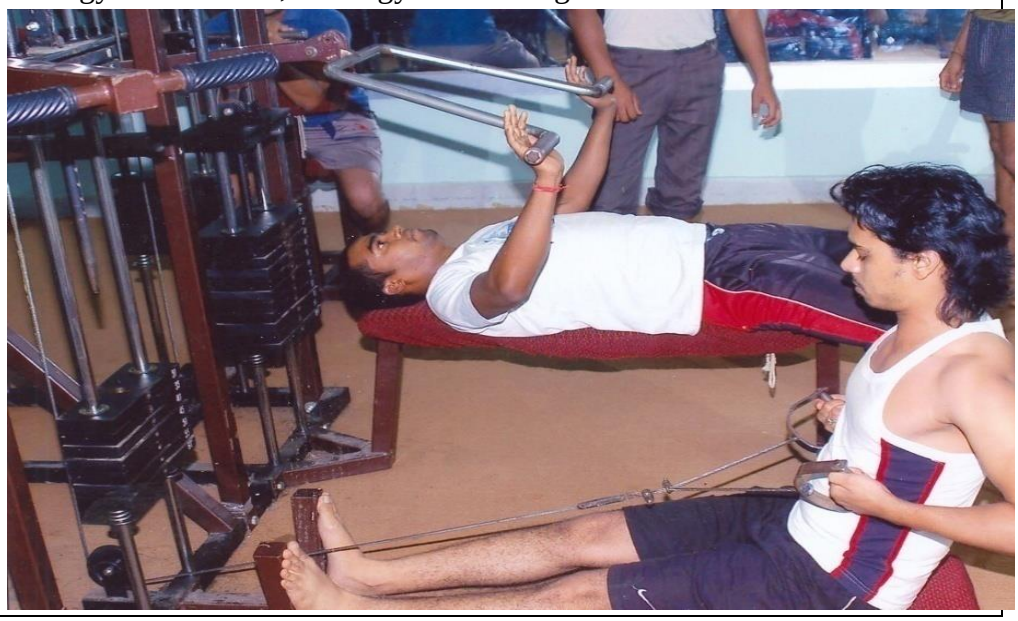
Classroom/Tutorial Room facilities	Total 34 Class Rooms, 58 laboratories, 13 Tutorial Halls and 1 Drawing Hall
Drawing Hall	

	Seminar Hall	
	Laboratory details	**Refer Page No.**
	***Computer* Centre facilities**	• Number and Configuration of Systems – 798 (I-3,P-IV & Above) • Total number of systems connected by LAN/WAN – 550 • Hi-End Servers : 1) HP DL380 G5, 2) HP 180 Server 3) HP Proliant DL360e G8. 4) ML150 5) HP ML 110 6) IBM AS/400 7) HCL Magnum • L-3 Switches – 02 • L-2 Switches - 30 • Sonic wall Firewall NSA- 4500 • Total Internet bandwidth – 40 Mbps • Leased Line Internet : 20 Mbps Reliance + 10 Mbps Idea + 10 Mbps BSNL • Major software packages available – Microsoft Campus Agreement, • Application S/w-192, System S/w-296
	Library facilities	• Total area of the library (Sq.M) – ***1292.36*** • Seating capacity of the library - ***200*** • Reprographic facility (yes / No) - ***Yes*** • Working hours of library - ***9 am to 9 pm*** • Library Networking facility (Yes/No) - ***Yes*** • ***No. of Titles : 11223*** • ***No. of Volume: 57056***

		• ***94 National Journals*** • ***1510 e-Journals [as per AICTE guidelines]*** • Usage data of the library (in terms of books issued to the faculty & students etc.) ***26967 Books [Jul-13 to Jun-14]*** • Annual library budget (% of annual student fee collected) - ***1.5% of annual Student fee collection*** 
	Auditorium / Seminar Halls / Amphi	Separate centrally air cooled auditorium with 700 seats capacity.

	Auditorium	
	Cafeteria	Cafeteria is available in the campus. 
	Indoor Sports facilities	Badminton Cement court-3, Table Tennis-4, Carrom & Chess Rooms-4.

	Outdoor Sports facilities	Cricket, Football-1, Volley ball-4, Tennis court-2, Basket ball cement court–1, Ball Badminton-1.

	Gymnasium facilities	Multigym 16 Station, Powergym free weight. 

	Facilities for disabled	Available (Photo)
	Any other facilities	Broadband, Leased Line, AS/400 Server, HCL Magnum, 24 Hr. Internet lab, Campus wide Fiber optics LAN, 24 Hrs power supply with 11 KV substation and DG set.

	11 KV substation Panel board	
	Administrative Building	

Laboratory details

Department wise List of Major Equipment/Facilities

I. Civil Engineering

S. No.	Name of the Laboratory / Workshop	Major Equipment
1	Fluid Mechanics	Pipes & fitting including electrical fittings. Propeller Current meter & digital display, Titling Flume (6 meter length)
2	Soil Mechanics	Direct Shear Test, Triaxial Test, C.B.R. Apparatus, Soil Trimmer (NISCO) (Motorized), Plate bearing Test Apparatus With Accessories, Oil/Water, constant pressure System for Tri axial Test, Earth resistivity meter With Accessories, C.B.R. mould made of steel metal (IS.9669) (6 nos.), AFCOSET ELECT. Analysis Balance (Cap – 120 gms, Accuracy – 0.1 mg.), Insitu Van Shear Test Apparatus, Universal or Combination Pereameter.
3	Transportation Engg.	Los Angle's abrasion test M/c, Deval's abrasion test M/c, Marshal stability apparatus.
4	Environmental Engineering	Vertical Autoclave, Spectrophotemeter (Digital spectrochlem), Incubator (Biological), Remis Incubator (Cooling), Water Analyzer kit, Photo flame meter Digital), Glass wares, Glass Double distillation plant. High volume air sampler, Centrifuge model, A.C. Voltage stabilizer, Spectrophotometer.
5	Survey	Transit Vernier Theodolites (6 nos.), Automatic level, Shamiyana, Shoulderies & single fly staff officer tent. Tarpaulins, Prismatic Compass Tape 30 mt. leveling staves. Transit Vernier & etc. Kanats & officers Tents. Through Compass Everest man Vernier Transit Theodolite (6 nos.), Tarpolines (15x15 Ft. – 5 nos.) (21x24 Ft – 2 nos.), (18x12 Ft - 2 nos.), (9x9 Ft – 3 nos.), Digital planimeter palcom (model KP, 90N) (3 nos.), Glob for Measurement of Latitude And Longitude, Chetak Verniour Transit Thedolite (3 nos.)., Electronics Total Station (SOKKIA 520)
6	Material Testing	Universal Testing machine, Impact testing machine, Fatigue testing machine, Extensometer, Shear testing apparatus, Tensile Testing machine (upto 500 kg.), Torsion Testing Machine 50 Kgm, Compression Testing Machine (Digital read out unit) Cap 500 Ton
7	Concrete Technology	C Compression testing machine, Electronic Balance Capacity 15 kg. Accuracy 1 gm.), Automated curing tank, Concrete Permeability apparatus, Air Compressor for Concrete Permeability apparatus, Compression Testing Machine (Digital read out unit) Cap 3000 kN

S. No.	Name of the Laboratory / Workshop	Major Equipment
8	Structural Engineering	Begg's Deformator, Research Polariscope, Universal Frame, Strain gauge, Software of STADD III 2 master disk + 8 other disk - Loading Frame 100 tons capacity, Diflection of Trusses Apparatus, Begg's Diformeter Set
9	Computer Lab.	Printer Dot matrix L&T L32 160 CPS, Room Air Conditioner, Voltage stabilizer with Buck & Buster, Aplab static voltage stabilizer – 2 KVA, Automatic voltage regulator NEWLITE make – 4 KVA, STADD III/ISDS Module Ver 11.1, Pentium Computer System, PC/AT-286, Computer System, Pentium 4 with 128 MB RAM (2 nos.), Pentium 4 with 256 MB RAM (2 nos.), Auto Architect desktop software Version 3.3, Dot matrix printer, Panasonic PT-PC50E micro portable LCD Projecter, Kodak Ektalite E-30 Overhead Projecter, Intel P-4 2.4 Ghz(BOX) with intel 845GVSR Original M/B 256 MB DDR SD RAM, Printer DMP 136 Col. 24Pin 342 CPSIL X1170 (10 nos.), H.P. Laser Printer 1015, HP Dx 2300 Intel Dual Core 2.8 GHZ, Laptop (HP), AC 2 T. (Blue Star make), CADian Professional 2008 site license, Constructor 2007, Estimator 2007, ETABS (5 nos.), STADD-Pro software
10	Hydraulic Machines	Palton Wheel Test rig, Francis turbine test rig, Centrifugal pump test rig, Universal air lift pump
11	Geology	Polarized microscope (04 nos.)
	Photos of some lab	

II. Mechanical Engineering

S.N.	Name of the Laboratory / Workshop	Major Equipment
1	Automobile	Cut Section of a Car Model, Infra RED Exhaust Gas Analyzer Model TD-2040 with Standard Accessories, Diesel Smoke Meter Model - DX 200 CAMIC Along with Standard Accessories.
2	Drawing Models Laboratory	Variuos models of joints, couplings, Pyramid, Cone, Cylinder, Prism, Sphere, wired models, etc.
3	Refri. & Air Conditioning Lab.	Vapor compression Refrigeration Test Rig, Air Conditioning Test Rig, Cut Model Control Panel, Anemometer, ICE Plant Tutor, Digital Temp. Indicator, Gas Charging Station Unit.
4 5	Dynamics Mech. Measurement & NES Lab.	Pressure measurement Rota meter, Dead weight pressure gauge tester, Level measurement module, Strain Gauge Indicator with Lathe Tool Dynamometer, H.E.M. Made Instrumentation Tutor part I,II,II, Hydraulic Control Trainer, Pneumatic control Demo kit, H.E.M. Make Strain Gauge Indicator, Electro pneumatic Converter, Precision pyranometer, Thermoelectric Pyrheliometer, Sun shine recorder with cards, Liquid flat plate collector test rig. VIB Lab. Whirling of shaft apparatus etc.
6	Metrology Lab.	Slip gauge set, Cylinder Bore Gauge, Gear Tooth Micrometer, Screw Thread Micrometer, Dial Bore Gauge, Mechanical Compatator, Voltage Stabilizers, Room Air Conditioner Crystal /1500, Surface Roughness Meter, Gear Tooth Micrometer, Screw Thread Micrometer, Watch Tachometer etc.
7	Computer Lab.	LCD Projector, UPS, Server, L&T Printer L32,160CPS (2.) , Computer Machine P4 (46) , Window AC (3), AutoCAD 2000i (5 user), CATIA V5R9 (5 user), MSC Nastron, Patron,Visual Nastron 4D, Oracle 9i (5 user), Window Server, ProE Wild Fire 3.0 (5 user), ANSYS 11 Software (5 user), LCD Projector, Lap Top HP. FMS system consisting of two mentor Robots, accessories & work cell component, etc.
8	Heat Transfer Lab.	Test rigs for determination of - Thermal Conductivity of Insulating Powder, Thermal Conductivity of Metal Bar, Heat Transfer from Pin Fin, Heat Transfer in natural Convection, Emissivity Measuring Apparatus, Boiling Heat Transfer Unit, Heat Transfer Through Composite Wall, Stefan Boltzman Apparatus, Finned Tube Heat Exchanger.
9	Metallurgy Lab.	Metallurgical Microscope with accessories polishing station, Inverted Metallurgical microscope with accessory, Muffle (Not Working) Furnace, Muffle Furnaces, etc..

S.N.	Name of the Laboratory / Workshop	Major Equipment
10	Mechanical Measurement Lab.	Presure Guage Bourdon"s type, Constant Volume Thermometer, Strain Gauge Indicator with Lathe Tool Dynamometer, H.E.M.Made Instrumentation Tutor part I,II,II, H.E.M.Make Strain Gauge Indicator, Hydraulic Control Trainer, Pneumatic control Demokit, Speed Measurment Module, Dead Weight Pressure Gauge Tester, Level Measurement Module, Rota Meter, Pressure Measurement, Strain Gauge, Linear Variable Differential Transformer Module.
11	Photography Lab.	Enlarger (Alfa) with 4.5 to 7.5 lens of Hansa, Stadelar Pen (0.3), Letrasel book, Stadelar pen (0.6), Cutter, Scissor etc.
12	Unconventional Energy Sources Lab.	NI Precision Pyranometer, NI Thermoelectric Pyrheliomenter, NI Sun Shine Recorder with Cards, Liquid flat Plate Collector Test Rig, Fibre Water Tank (Plasto) 500 Litter,
13	Energy Conversion Lab.	Cocharan Boiler (Model), Vertical Water Tube Boiler, Marcent Boiler, Cornish Boiler, Babcock Wilcox Boiler etc.
14	Hydraulic Lab	Francis Turbine, Radial Turbine Pump Model, Gear Pump, Centrifugal Pump, Reciprocating Pump, Hydraulic Elevator etc.
15	Internal Combustion Lab.	4 stroke single Cylinder Diesel Engine Test Rig, Air Compressor Test Ring, Indicatar Cutable for Two Stage 15KSC/7.5 HP 2 Cylinder Air Compressor Test Ring, Blower Test Rig, Single Cylinder 2 Stroke Petrol Engine Test Rig, 4 Stroke 4 Cylinder Petrol Engine Test Rig, Computer Based IC Engine Test Rig etc.
16	FMS Lab	Pick & Place Robots with Conveyor & Indexing Table

S.N.	Name of the Laboratory / Workshop	Major Equipment
	Mechanical Lab	

III. Workshop

S.N.	Name of the Laboratory / Workshop	Major Equipments
1	Smithy Shop	Smithy hearths, Anvil, Tools and other minor tools.
2	Machine/Turning Shop	Universal column & Knee type milling m/c, Shaper machine 12", Radial drilling machine, Lathe M/c (Omega, Shimga, Parmer, Capstan, H.G.),CNC M/c, Master model Lathe Padmini and other minor tools.
3	Welding Shop	Welding transformers (air & oil wired), Spot welding M/c, Gas Welding Unit, Grinder.
4	Fitting Shop	Drilling M/c, Hard Press, Hydraulic Power Saw, Too grinder & other tools and equipments.
5	Sheet Metal Shop	Edge folding & binding M/c, Sheet Folding M/c, Grinder and other tools, equipments.
6	Carpentry & Pattern Making Shop	Wood Turning Lathes, Universal wood working M/c, Band saw, Jig & fraight saw, Belt & disc sander, griner, other tools and equipments.
7	Moulding Shop	Blower M/c with bit furnace, Grinder, Other moulding tools and equipments.

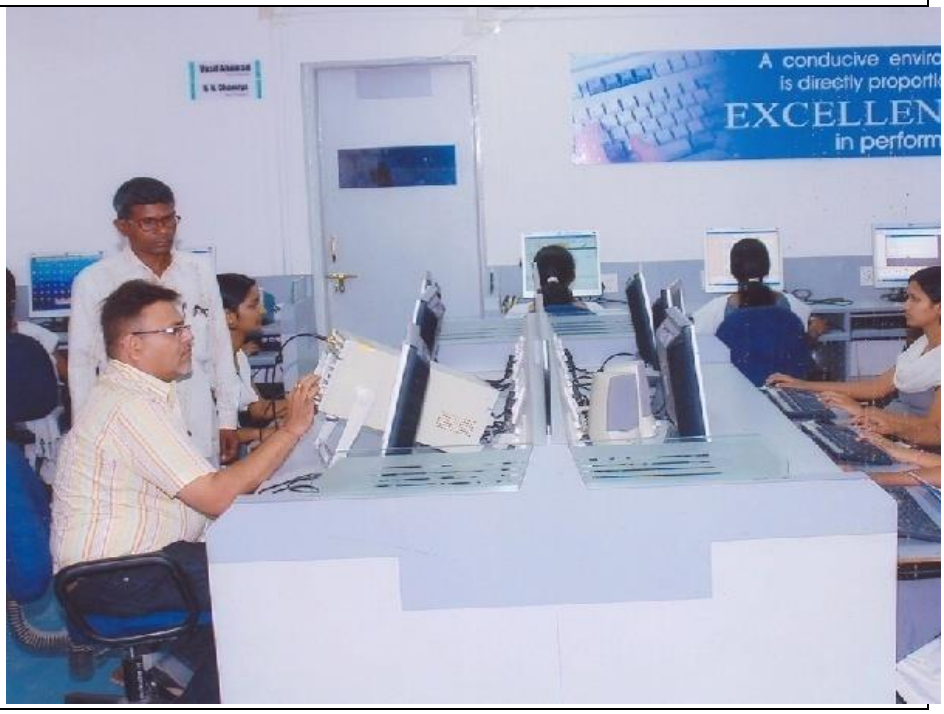
	photos	CNC machine photo

IV. Electronics & Telecommunication

S.N.	Name of the Laboratory /	Major Equipment
1	Microprocessor/DSP/VLSI	LABVIEW S/w (50 Users), Wi-Fi Data Acquisition module NI-WLS – 9205, USB Data Acquisition Module NI USB-6221, NI myDAQ-Student Kit with LabVIEW & Multisim Student Edition (5 Nos.) , VLSI Design Software XILINX ISE Series Ver. 9.2 with Spartan-III based VLSI Kit (N-User), VLSI-VHDL-VERILOG-FPGA-CPLD (Single user, 5 Nos.) , MATLAB DVD Kit for PC & Unix Release - R2008a (10 User), 'C' cross compiler support for 8051 micro-controller Make – SPJ (5 Users), ORCAD- Capture, PSPICE and Layout (EDA Software) R 9.2, DSP Trainer Kits (5 Nos.), DSP System Generator Ver. 9.2 (N-User), 32 Channels, 16 bit, 250 kS/s Voltage input, Universal Kit for Xilinx CPLD Xc9572 devices (on board) , Model-EDASX2 and Spartan FPGA Device (2 Nos.) , DLP Projector , HP Server Proliant ML 150, CRO 30 MHz (2 Nos.) CRO 20 MHz (2 Nos.), Microcontroller trainer kit 89C51 (10 Nos.) AVR Mega-32 Microcontroller kits (4 Nos.) , Beagle board (2 Nos.) , Logic Analyzer , HP 3330 MT l-3 DESKTOP (10 Nos.), HP make core to duo Computer with 18.5" TFT (45 Nos.), Laser Printer HP-1015, Scanner Canoscan Lide110, Universal Programmer Superpro/Z , Notebook Computer HP-Make, 32 bit ARM LPC2129 Kit (2 Nos.), Four channel Dual 3006 stereo daughter card (2 Nos.), MSP 430 Starter kit (2 Nos.), Caddo 823 Techlab 30 MHz, 2 Ch 4 tract with 2MHz function Generator, triple output power supply frequency counter, Static voltage stabilizer, Model:9313A , Aplab-Make (2 Nos.)
2	Communication Engineering	Mobile Handset Trainer , Wireless standards GSM-900 / E-GSM / DCS-1800 Model : Falcon MHT,GSM trainer kit, Wireless standards GSM-900 / E-GSM / DCS-1800 Model : Falcon EB-115,CDMA / FHSS trainer kit, Four/eight channel ,Variable chip clock,Model : Scientech 2117, Simulation software for digital communication system, SIMTEL 11 (Single User),Wireless Communication software, SIMTEL 13 (Single User), Spectrum Analyzer , CRO Dual Trace (11 No.) CRO Four Trace, Signal generator (FM/AM) Radar 2354 , Strowger Exchange 50-7 lines, Computer P4 (6 Nos.), HP 3330 MT l-3 DESKTOP (1 No.), , Caddo 823 TechLab.

S.N.	Name of the Laboratory /	Major Equipment
3	Electronics Workshop	Universal Calibrator , HP 3330 MT l-3 DESKTOP (10 Nos.), HP Desktop PC DX 2255 (1 No.), HP Laser Jet Printer, Model 1020, PCB Etching Machine,Crescent Mumbai Make , CRO(9 Nos.), Computor P4(22 Nos.) Process Camera , Photo Resist Dip Coating Machine, Photo Resist Ultravioleted Rich exposing unit , Etching Machine, Tinning Machine, Automatic Coil winding Machine , PCB Etching Machine(AGIT) , Overhead Projector (2 Nos.), Automatic Digital IC Tester, PTH Unit , Sheet Folding Machine , Dry Film Laminator, Dry film developing Unit, Screen Printing Machine, Dip Soldering Machine, Overhead head Projector Kodak Ektalite E30/E31(2 Nos.),
4	UHF & Microwave	Tinnel Microwave Laboratory, Microwave Laboratory X-Band(2 Nos.), Microwave Laboratory C-band , Klystron with mount (9134), Analog-Digital Training System(2 Nos.), Microwave Test Bench Gunn based (x-Band) , Microstrip system trainer, Intel P-4 Computers (3 Nos.), Function Generator , Component Development System(2 Nos.), Microwave Laboratory Klystron base (2 Nos.), Vector Network Analyzer, Colour T. V. Trainer main board 32" x 24" with colour T. V. Picture tube. All assembly with PCB working , Colour T. V. Receiver kit, CRO (Dual Trace) (3 Nos.)
5	Electronic Devices & Circuits	Digital IC Tester, CRO(10 Nos.), LCR Bridge Digital Type, Digital Multimeter, Function Generator, Computer P4(3 Nos.), HP 3330 MT l-3 DESKTOP (1 No.)
6	Instrumentation	Recorder , CRO (6 Nos.), Trainer kits for measurement of Temperature, displacement, angular displacement, capacitive transducer, resistive hygrometer, load cell, hot wire anemometer, Hall-effect, instrumentation tutor port, D/A convertor, Speed Measurement Trainer (2 Nos.)
7	Elect. Machines / Electrical Engg.	Slip-ring Induction Motor, Alternator motor Set, DC Series Motor-Generator, DC Shunt Motor-Generator Set, DC Machine Assembly Kit, DC Power Supply, Oscilloscope(3 Nos.), Computer P4 (2 Nos.)
8	Integrated Circuit	Digital IC Function Tester, CRO(8), Computer P4 (2), HP 3330 MT l-3 DESKTOP (1 No.)
9	Power Electronics	Dual power supply(0 to +/-32 V, 0-10 Amp),Mode l - LD3210 (Aplab make) (4 Nos.), Oscilloscope (9 Nos.), Signal Digitiser- systronics, 3Phase,Induction Motor Speed Controller, Integrated Thyristor Controller(ITC)(6 Nos.), RMS/ Hund Held 4 1/2 Digital True User's Multimeter, Computer P-IV (3 Nos.) Dielectric Heating Trainer Kit,

S.N.	Name of the Laboratory /	Major Equipment
		Induction Heating Trainer Kit, HP 3330 MT l-3 DESKTOP (2 Nos.),
10	OFC	D. L. Video fiber optic video link separate transmitter and AGC receiver module with 12VDC power supply fiber ,Fiber optic training Lab. With Accessories Falcon make, MOP-VLG fiber optic power meter Falcon make, MOS 850 fiber optic LED power source Falcon make, FI-500 Fiber Optic continuity Tester Falcon make , CK-1000 ST Connector installation Kit, Falcon Make HE-NE Laser source, Laser Optic Lab & Glass Fiber, CCD Camera Colour , UV Mechanical Splicing kit with accessories Falcon make , Antenna system Trainer, S-936 FM (Stereo)/AM Synth. Sweep Signal + Marker generator, STS-3006 Antenna Analysis Software
11	Network	CRO (3 Nos.), K-type bandpass filter, M-derived low pass filter, phase angle meter, Digital Multimeter (4 Nos.), Fourier kit, Analog multimeter, Solid state AC milivoltmeter , Q meter model , Regulated DC power supply
12	M.E./ Research Lab.	Computer, Hp Elite 7100 desktop (20 Nos.), Dell Vastro 1015 (2 Nos.), MICROWIND 3.5 package (20 Users), C compiler with IDE & Debugger for ARM family of micro-controller (SCARM) (5 Users), HP ScanJet,G4050, VLSI Based Advanced Digital Communication Training System, SM 2148 Micro Module + DevPro (5 Nos.) , ARM7 LPC2148 Development Board EDAS (5 Nos.)

S.N.	Name of the Laboratory /	Major Equipment
	Microprocessor Lab	

V. Computer Sci. & Engg.

S.N.	Name of Laboratory / Workshop	Major Equipment / Software
1	Multimedia	Printer Dot Matrix FX-105, Printer Dot Matrix 1050, Voltage Regulator Range 184V-253V / 5KVA, (2Nos) Software:(Adobe Page Maker 6.5 plus full pack, Corel Draw 9.0, MS office 2000 full pack Professional AE, MS office 2000 full pack Professional AE MOLP Additional Licences Prince Level "A", AUTO DESK 3D STUDIO MAX AE, Microsoft Visual C++ ver 5.0 P.E, MS Visual Basic Prof.5.0 AE, MAT LAB, Wavelet Tool Box, System Identification Tool Box, Signal Processing Tool Box), Video Conferencing Kit, Macromedia Web Design Studio MX 1.1 AE, Canon Digital Camera, TV Samsung, ONIDA Make DVD Player, Printer HP COLOR LASERJET 2600N, HP DX 2300 INTEL DUEL CORE 2.8 GHZ (15 Nos.) Pentium IV Machine Zenith Make 1.66 GHz, 128 MB RAM, 18 GB SCSI HDD, 1.44 MB FDD, 15" Digital Color Monitor, 52x CDROM Drive, 10/100 MBPS Lan Card, 108 Keys Keyboard, Scroll Mouse, 56 KBPS Fax Modem Card), HP INTEL CORE-i3, 3GHz, 4GB RAM (10 Nos)
2	Client Server	PC/AT 80386 DX 33 MHz with , 2 MB RAM (8 x 256MB), 1.44MB FDD, 260MB HDD segate make , IDE Controller Card, 101 keys AT

		Keyboard , 14" Dual Frequency , Printer HP500C Inkjet Color HP Make, Voltage Regulator APLAB Survoline 184V-253V / 5KVA, Pentium I Machine 133 MHZ - DISKLESS WITH , 1.44 MB FDD, 16MB RAM, MONO VGA (MICROTEK) Monitor(30 Nos), Licences Win 98 MOLP Additional, Software:Turbo Accelerate Suite C++(Borland), Software Microsoft Foxpro 2.6, DLP Projector Model No.U5-111 with accessories, Intel P-IV 2.4 Ghz(box) with intel 845 GVSR original M/B, 256 MB DDR RAM Hunix(box), 40 GB, 7200 ATA 100 HDD Seagate, 1.44 MB FDD Sony, 52 x CDROM LG, On board 10/100 mbps intel LAN / Sound / AGP, 15 " Digital Color Monitor LG (4 Nos), HP LJ1022 Printer, Printer PSC HP 3050, HP DX 2300 INTEL DUEL CORE 2.8 GHZ with 512 DDR RAM , 80 GB HDD SATA , DVD WRITER SATA, Multi Media Keyboard , OPTICAL MOUSE HP,PROVIEW 17"TFT MONITOR (11 Nos), HP Server ML110 with 3GHZ, 1GB RAM, 2x80 GB HDD, CDROM, Multi Media Keyboard, Optical Mouse, Laptop Zenith Director - Intel Pentium Dual Core Processor 1.73 Ghz, Scanner UMAX Scanner 5600
3	IBM Rarional Rose	Aplab Line Voltage Regulator Model 9124 input 184V-253V Output 230V+0.57 Max Current 22 Amps.Capacity 5 KVA max (2Nos),, AC – 2 Nos. Software: J Builder Developer Ed. AE (Ind : JDK 1.3), Laser Printer HP 1015, Software IBM Rational suite Enterprise with 15 floating licences, IBM Rational suite Enterprise, HP DX 2300 INTEL DUEL CORE 2.8 GHZ/512 DDR/80GBHDD SATA/DVD WRITER/MMKB/OPTICAL MOUSE/17"TFT MONITOR (21 Nos), HP LJ1020 Printer, Blue Star A/C 2 tonne with installation, with Remote (2 Nos)
4	STLD Lab	Microsoft CS-5.1 optimizing Compiler, Printer L&T L32 Col 160 CPS, 80386 Computer Systems :80386 DK Moth. Board 33 MHz, 2 MB sim Memory((*x256),1.44MB, 3.5 FDD,IDE Controller Card,SMPS : 200 Watts,260MB HDD, Segate,Dual Frequency Monitor (22 Nos), Training Kit:: a)SBC-51#1507, b)SMPS, Cable & converter microassembly (2Nos), Circuit maker s/w with device, cable, Aplab Line Voltage Regulator, Intel P-IV 2.4 Ghz(box) with intel 845 GVSR original M/B (4 Nos), HP LJ1020 Printer, HP LASERJET 1020 (3 Nos), P-IV 1.9 GHz, 128 MB DDRAM, 1.44 MB FDD, 40 GB HDD 7200 RPM, Onboard AGP/Sound/LAN SVGA, 15" Digital Color Monitor (20 Nos) , PC/AT 80386 DX 33 MHz with Moth. Board (07 Nos) , 1050 : 9 pin 300 cps WIPRO, Printers DeskJet 500C
5	Linux	DSP-Trainer Kits L&T, Wipro P-IV PCs (27 nos) Over head Projectors (2 Nos), DLP Projector US 111
6	Programming	Printer 80 Letter Quality Printer, Aplab Servo Controller automatic line voltage regulator, PC/XT(10 MHz) with 640 KB & CGA, 1MB RAM CARD, 20/40 MB HDD, PC/AT computer systems Operating @ 16/21MHz (28 Nos), Air Conditioner, Printers Paragon 36,

		PENTIUM 133 MHZ with 2 X 1.2 GB HDD, 1.44 MB FDD, 16MB RAM, MONO VGA (2 Nos), P-IV 1.9 GHz, 128 MB DDRAM, 1.44 MB FDD, 40 GB HDD 7200 RPM, Onboard AGP/Sound/LAN SVGA, 15" Digital Color Monitor (20 Nos), Printer 1050 : 9 pin 300 cps WIPRO, Printers DeskJet 500C
7	Microprocessor	Pair of Line Driver, Air Conditioner for AT lab make Voltas 1.5 ton model Crystal1500, APLAB Survoline Voltage Regulator Range 184V-253V / 5KVA, Voltage Stabilizer A.E.Make Capacity 3KVA (2 Nos), ADM 8088/86 max min mode disassembly pods model pod with power supply (10 Nos), Dual Trace Oscilloscope, Built in Curve Tracer ,Composite triggering,Variable Hold off (8 Nos), DYNA KIT - Dyana-86L#260830 with keyboard MODEL DYNA-86L Sr.No.Pylomax 2608 (3 Nos), MODEL ADM-LA 480 PC compatible logic analysis system(48 channel), ADM PD1-100 General purpose pods(100 MHZ)model pd 10, ADM PD-48 General purposepods(25MHZ) Model pd 48, Microprocessor based CUB KIT 8085 Anshuman Make 8085 with Power Supply (10 Nos), EPROM Programmable Model EPA27 (5 Nos), Memory I/O Study Card Anshuman make (5 Nos)
8	R & D Lab	Intel P-IV 2.4 Ghz(box) with intel 845 GVSR original M/B, CDDR/Sound/AGP/SSB/FSB, 256 MB DDR RAM Hynix(box), 40 GB 7200 ATA100 HDD Seagate, 1.44 MB FDD Sony, 52 x CDROM LG, on board 10/100 mbps intel LAN, 15 " Digital Color Monitor LG, **(26 Nos)**, Intel P-IV 2.8 Ghz(box) with intel 845 GVSR original M/B, CDDR/Sound/AGP/SSB/FSB, 256 MB DDR RAM Hynix(box), 40 GB 7200 ATA100 HDD Seagate, 1.44 MB FDD Sony, 52 x CDROM LG, on board 10/100 mbps intel LAN, 15 " Digital Color Monitor LG, Scroll Mouse Logitech, MM K/B, ATX Cabinet. with Net Gear Card **(7 nos)**
9	IBM AS400	APLAB Survoline Voltage Regulator Range 184V-253V / 5KVA Model No 9124, IBM AS/400 SERVER with V3R7 OS/400, Terminal Logic Unit, 121 Keys K/B, 2X4 GB HDD, CD ROM, CTD DRIVE, MONO VGA monitor, and preloaded softwares. including cat 5 networking OF AS/400 & CS LAB, APC Make : 1KVA, External CD Writer Model 7500 series HP (24x14x14X, 1.5 tonne Voltas Make Room A/C Crystal 1501 (2 Nos), HP DX 2300 Intel Dual Core 2.8 GHZ/512 DDR/80GB HDD SATA/DVD Writer/mmkb/optical mouse/17"TFT Monitor.(20 Nos.), Projector XD 1160 ACER, Turbo C++ Software, MSDOS 6.22 Software.
10	Database Lab	APLAB Survoline Voltage Regulator Range 184V-253V / 5KVA Model No 9124), PENTIUM 133 MHZ with 1.2 GB HDD, 1.44 MB FDD, 16MB RAM, MONO VGA (MICROTEK), 101 K/B, MOUSE RP TECH (24Nos), Wipro Super Genious 10845GL P-IV, 1.6 GHz, 128 MB DDR, 40 GB HDD, 5400 rpm FDD, CDR, 104 keys keyboard, 2 button mouse, Win ME, NAV intell smart, zip Drive with monitor (09 Nos), Intel P-IV 2.4 Ghz(box) with intel 845 GVSR

		original M/B CDDR /Sound /AGP/SSB/FSB/256 MB DDR RAM Hunix(box), 40 GB, 7200 ATA100 HDD Seagate, 1.44 MB FDD Si\ony, 52 x CDROM LG, on board 10/100 mbps intel LAN, 15 " Digital Color Monitor, Scroll Mouse Logitech, MM K/B, ATX Cabinet (04 Nos), HP DX 2300 INTEL DUAL CORE 2.8 GHZ/512 DDR/80GBHD (03 Nos), Oracle 8i with Developer 2000 S/w
11	Electronics Lab	Dual Trace CRO (10 no.) Dyana EMB Tech #140 Embedded Kit, Assembled PC P-IV Neotech 1.9 GHZ – 20 No., HP Ellite 7100 Intel Core I-3 2.4 GHZ – 24 NO.
	photos	

VI. Information Technology

S.N.	Name of Laboratory / Workshop	*Major Equipment / Software*
1	Cisco Network Academy Lab	Intel P-IV 2.4 Ghz(box) with intel 845 GVSR original M/B, CDDR/Sound/AGP/SSB/FSB, 256 MB DDR RAM Hynix(box), 40 GB 7200 ATA100 HDD Seagate, 1.44 MB FDD Sony, 52 x CDROM LG, on board 10/100 mbps intel LAN, 15 " Digital Color Monitor LG, Scroll Mouse Logitech, MM K/B,ATX Cabinet,With Net Gear Card. (20 Nos), CISCO 1841 MODULEAR ROUTER W/2 X FE, 2 WAN SLOTS, 32 FL/128 DR (3 Nos), WIC-2A/S, 2 PORT ASYNC/SYNC SERIAL WAN INTERTFACE CARD FOR CISCO 2660 (3 Nos), CAB-SS-V35FC, V35 CABLE, DEC FEMALE TO SMART SERIAL 10 FT, (3 Nos), ACS-1841-RM-19, RACK MOUNT KIT FOR 1841## (3 Nos), CAB-SS-V.35 MT (3 Nos), WS-C2900-24TT-L CATALYST 2960, 24 10/100 + 2 1000 BT LANE BASE IMAGE (3 Nos), WRT310N - SG WIRELESS-N BROADBAND ROUTER (1 WAN GE 24 GE BROADBAND ROUTER) (2 Nos), Epson LCD PROJECTOR WITH SCREEN, HP INTEL CORE-i3, 3GHz, 4GB RAM (20 Nos)
2	Networking Lab	L&T 300 CPS Printer, HP LJ1022 Printer, UPS APC 3KVA Offline with batteries, Intel P-IV 2.4 Ghz(box) with intel 845 GVSR original M/B, CDDR/Sound/AGP/SSB/FSB, 256 MB DDR RAM Hynix(box), 40 GB 7200 ATA100 HDD Seagate, 1.44 MB FDD Sony, 52 x CDROM LG, on board 10/100 mbps intel LAN, 15 " Digital Color Monitor LG, Scroll Mouse Logitech, MM K/B,ATX Cabinet With Net Gear Card (20 Nos)
3	Software Development Lab	SW: Novell Netware Server 5.0 + 5 Connection 300340891, NW-5 25 Connection additional licence 400108996,MS Visual Studio Enterprises A.E.V6.0, Turbo Accelerate Suite C++(Borland) (30 Nos), LINUX Prof. 8.0, HP TC 2120 WITH CPU Regulatory Model 5X150308652-001,Additional 86.4 GB SCSI Drive CPU, HP LJ1022 Printer, HP COLOR LASERJET 2600N, EXTERNAL HDD 500 GB, HP COMPAQ DX2255 AMD Athlan 3500 GHz 512 MB RAM 80 GB/DVD Combo Drv. CPU With Net Gear Card (20 Nos), HP Server Brilliant ML 150 CPU, SW : MAT LAB & Tool Boxes, UPS APC 3KVA Offline with batteries Smart UPS-3000, SW:J Builder Developer Edd.AE (Ind.Jdk 1.3, HP INTEL CORE-i3, 3GHz, 4GB RAM (20 Nos)
4	Embedded lab	L&T 300 CPS, DSP Using TNS 820025, DSP Trainer (Stand 18NPC 101 Keyboard., DSP Trainer kit TMS320C30 (2 Nos), OTS Low Cost AD ADC/DAC Cord Assembly,

		HP Pavilion DV 212TV Notebook PC Dual Core 1.7/ 512 / 80GB / DVD RW/1.3mp webcam/BT/WI-FY/40., HP COMPAQ DX2255 AMD Athlan 3500 GHz 512 MB RAM 80 GB/DVD Combo Drv. CPU With Net Gear Card (10 Nos), Tablet PC HP 1301 CNF73554Q6, SCRAM development toolset for ARM Micro controller, Mini ARM 2378 with LCD Display (2 Nos), MA EXP Board (2 Nos), Arm SBC 9302 with 8MB flash & 3.2 MB RAM (2 Nos), DE2 Board with Mega Pixel Camera Module & Color Graphics LCD Display, Computer Dyna EmbTech#140 Embeded Kit with power supply
5	Project Lab	HP COMPAQ DX2255 AMD Athlan 3500 GHz 512 MB RAM 80 GB/DVD Combo Drv with Net Gear Card WI-Fi (17 Nos)
6	Programming Lab	HP COMPAQ DX2255 AMD Athlan 3500 GHz 512 MB RAM 80 GB/DVD Combo Drv with Net Gear Card WI-Fi (20 Nos)
7	Internet Lab	THINCLIENT ENTER PCBUDDY NETWORK COMPUTING TERMINA, HP Server Brilliant ML 150, THINCLIENT ENTER PCBUDDY NETWORK COMPUTING TERMINAL with 15” TFT.- 30 Nos. , Split AC 2 Tonne x 2 No
8	Thin Client Lab	Thin client Server with 30 clients, Pentium with 16 MB RAM,FF 1.44, Mono VGA Monitor - AM7-131054, 101 K/B, Scroll Mouse RP-Tech with Thin Client Card (23 Nos), HP DX 2300 INTEL DUEL CORE 2.8 GHZ / 512 DDR /80 GB HDD SATA / DVD WRITER / MMKB / OPTICAL MOUSE / 15" LG MONITOR, EXTERNAL HDD 400 GB, DLINK DE816TP 10BASE T ETHERNET HUB 16 PORTS, DLINK DES3226S ETHERNET SWITCH 24 PORTS,
9	Maintenance Lab	) Electronically Temp. controlled soldiring & Desoldering Station DDTOS-1700, AMI Diagnostic, Semantic Nortons Antivirus for 2000 (for Win95/98/NT), Semantic Nortons Antivirus for DOS
10	Language Lab	Teacher Console, IK590, Teacher External Box IK180, Student External Box IK180 **(10 Nos)** , LG LCD TV 42", Projector XD 1160 ACER, HP DX 2300 INTEL DUEL CORE 2.8 GHZ/512 DDR/80GBHDD SATA/DVD,WRITER/MMKB/OPTICAL MOUSE/17"TFT MONITOR (21 Nos)., MSDN ALLIENCE - 20 USER, ETRUST SOFTWARE, APC Make UPS 5 KVA, Split AC 2 Ton x 2 No

	Language Lab	

VII. Electrical (Electronics and Power)

S.N.	Name of the Laboratory /	Major Equipment
1.	Electrical Machine	Watt meter: Electro dynometer type meco make, LPF, Wattmeter AE make class 0.2, 1.0 TPDC 150/300V, 300-600V, 1.2A 125-250V , 5-10 A, 150-600V, 5-10A 150/300V Ammeter: make Nippon moving iron range 1.0 type 0-2.5A/ 5A, 0.5/5A, 2.5/5A ,5-10 A, Ammeter AE make 1- 2A, 0-1/2 A, table moving iron range 0-0.5/ 1A, 5-10A, Ammeter Meco make DC 0/1/2A, 2.5/5A, 5-10A, AC-1/2A ,2.5/5A, 2.5/5/10A Ammeter DC 5/10A, 1-100 A DC, 1/2A, Millimeter AE make class 1.0 range 0-100ma Volt meter Make Nippon 50-100V, Moving iron range 150 - 600V, 150-300V, Volt- Meter AE semtivity 1000 ohm V range 150-300V,

S.N.	Name of the Laboratory /	Major Equipment
		Volt- Meter AE make 300-600V class 1.0, 150-300V Class 1.0, moving iron 150-600V, 150-600V ,Volt- Meter Make RS Stimson 0-10V, Voltmeter Meco make PMCC 150-300V DC, 0-30V, PMCC 150-300V AC, Voltmeter 150 to 300 SN 55099, Volt- Meter make Meco DC 150-300V, D.C. Voltmeter 75/150/300V, Voltmeter D. C. Meco make 0-10V Panel, D.C. Voltmeter 150/300/600V Millimeter AS Simpson 0-100ma, Auto stat 1 phase make Argo 5A 230V output 270V, Single phase transformer make Argo 230/115 - 0 - 115V, Three phase induction motor couplsd to compound gen .set 1400 RPM Crompton Make Star delta star manual, D C Motor gen set (compound) gen. set. 7A 2HP 1500RPM Central Brand make 230V Multimeter make Simpson model 260-6M, Multimeter make Motwani model 8X mark-3, Multimeter make Motwani, Digital Multimeter Meco make model 9A, Digital Multimeter make Meco, Digital multimeter meco make model No 9A06:3-1/2 digit, Digital multimeter meco make model No 603:3-1/2 digit, Rheostat Make Toshniwal PL 16.01 100 ohm 5A, Dimmer stat 3 ph A.E make, Dimmer stat single phase me make 10 A, Rheostat osaw make 1500 ohm /0.6A, Rheostat Make Toshniwal PL 13.01, Rheostat Make Toshniwal PL 13.01 1.2A/750 ,Rheostat Make Osaw 1500Ω, 0.6 A, Rheostat Make Osaw 1500Ω, 1.2 A, Rheostat Osaw make 160 ohm 1.4A , Rheostat Make Osaw 750Ω, 0.9 A Decade resistance boxes Hindustan Scientific make two dial type 0X10 and 100 ohm, Decade resistance boxes HS make x10x100 ohm, Decade condenser Oswa make Cat No. 30388/DC 34 ,Decade condenser Cat No. 30385/DC 2A 84817, Fixed condenser Osawa make capacitor 0-0.001 MDF, Fixed condenser 0.05 MFD, Variable Inductor Omega make 0-100 MAX crent 0.2A, Fix Inductance make Zaran type 512E, Chock coil 3 ph make Zaran 10A SN MME 7180,

S.N.	Name of the Laboratory /	Major Equipment
		Energy meter 5-10A 240A 50Hz 1200KWA TYMEBC, Energy meter 3 ph Eaw make, Energy meter single phase, Single phase transformer make Argo 230V / 115 – 115 50Hz, Three phase transformer make Argo 400/230V 5KVA 50Hz, Kelvin Double bridge make Toshniwal GET PL-39 ,Alternator D. C. motor circuit make Elmot 1500 RPM, Slipring Induction Motor Make Techno gear 1450 RPM, Single phase I. M make Lincon, Universal motor make Techno gear 6000 RPM, Three phase transformer make Argo 440 V /230V class B 50Hz,Three phase transformer make Argo 5KVA 50Hz 400/230V, D. C. series motor gen set Make Elmot 1500 RPM,D. C.shunt motor gen set Make Elmot 1500 RPM,Frequency meter A.E make class 1.0 110V to 400V FR-40-60HZ model DVS/1065, D. C. power supply 24rectifier Benthonic input 440V 50Hz three Phase output 0-250V Dc 500V , D.C regulated power supply 0.30 v 10 A, Armature model of d. c. machine ,Working model Inducting make PMCC Meco make model 144 0-15V,Tachometer make Smith ATH-7, Tachometer model 1010A ,Tachometer Hand type 630 make Toshniwal,A.C. voltage 24stabilizer Make AE model MY-515C 180/260V 1A ,Auto stat 1 phase 8A input 230V output 270 make Argo,Auto state3 phase make Argo 15A 415V output 470V,Crompton potential Osaw meter make model No. 30066/CP 88607 ,Osawa volt ratio box Cat No. 3015AVR 8811 ,Osaw stander resistance Cat No. 29576/88M,Osaw stander resistance SN 29576/88M, Working model rnage 0-100 VDC 0-100ma AC 0-2.5/ 2-5 ma DC, Osaw stander cell box SB88122,Working model moving iron range 0-150v 0-1A, 0-15A, AC Volt- Meter Meco make 150-300V,D. C. machine assembly kit ,Auto stat 1 phase make Argo 230V 4A ,Auto state 1 phase make Argo 230V 4A,Clamp meter Meco make,D. C. power supply 30v 1amp model Mete 300V ,C.R.O. model 201 Aplab make, Tachometer make Smith ATH-6,Tachometer make Toshniwal Type 630 ,Millimeter Meco make 23317 0-100MA DC,Micro ammeter 500Um,Micro ammeter Meco make 0-100A ,A. C. Tachogenerater model Genstar 400RPM 1000,D. C. Taco generator TG 300RPM 07831087 , Portable moving meter SN

S.N.	Name of the Laboratory /	Major Equipment
		0-100/ 200ma,C.R.O. Syntactic make model 201,Function Generator SN 1613 model 1013,Tachometer cont 12/PP & Handel MO-630 make Toshniwal, Tachometer make toshniwal 630 range 300 - 5000 RPM LPF watt meter 2.5/5 A 150/300/600V, Mill volt DC 25/50/100,Multi output DC power supply model LQ6324 Aplab make ,CRO L&T – Make Dual Trace ,Component Development System Model XPO-ANA-Digital Single phase loading rheostat ,Three phase loading rheostat, Intel P-4 2.4 GHz ,Watt meter AC/DC 2.5/5 A ,DC Millimetre 0.20 ma,Digital Tachometer Single phase autotransformer, Rheostat osaw make 700 ohm/0.8 Amp ,Rheostat osaw make 1700 ohm/0.6 Amp,Kelvin Bridge Trainer with CD &cords Maxwell Bridge Trainer with CD &cords, Hey's Bridge Trainer with CD & cords, 50 MHz 500 Ms/s colour digital CRO, AC volt meter portable meco make ,Dime stat 3 phase Teco meter digital Argonic make contect type, 3 phase induction ,motor 2 Hp, Single phase induction motor 1 Hp,Auto computer LCR Q meter Aplab make,3MHz multi wave form signal generator Aplab make,

VIII. Humanities

S.N.	Name of the Laboratory /	Major Equipment
1	Physics	Advanced Spectrometer, Hall Effect experiment, He-Ne Laser, Ultrasonic Interferometer, Newtons ring experiment, Cathode Ray Oscilloscope, PC, Laclanche Cells, Travelling microscope, Thomsons Apparatuts, Ultrasonic interferometer etc.
2	Chemistry	Abels apparatus, Pensky Martens apparatus, Redwood Viscometer, Hot air oven, Portable glass plant, Spectro meter, LHC-48 Const. temp. water bath, Digital Consuctivity meter, Digital analytical balance, Desktop PC, Laptop, LCD Projector, Abels flash point pparatus, Glasswares, Chemicals etc.